TABLE 4.1 Information Base Components for Ground Water Management Decisions

Hydrogeology

Soil and unsaturated zone characteristics Aquifer characteristics

Depths involved

Flow patterns

Recharge characteristics

Transmissive and storage properties

Ambient water quality

Interaction with surface water

Boundary conditions

Mineralogy, including organic content

Water Extraction and Use Patterns

Locations

Amounts

Purpose (domestic, industrial, agricultural)

Trends

Potential Contamination Sources and Characteristics

Point sources

Industrial and mining waste discharges Commercial waste discharges Hazardous material and waste storage Domestic waste discharges

Nonpoint sources Agricultural Septic tanks

Land applications of waste Urban runoff

Transportation spills (may also be considered a point source) Pipelines (energy and waste water) (may also be considered a point source)

Population Patterns

Demographic Economic trends Land use patterns

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